# Student Self-analysis

Quiz

The following quiz is designed to provide you an opportunity to practice items you will be required to demonstrate during this course.

1.	Iden	tify the cor	npass direction	related t	o the followin	ø:		
			SSE		NW		ENE	o
W	SW _	0	NE _	o	S	o 	NNW	· · · · · ·
	SE _	o	SSW _	<u> </u>	WNW _	o	<b>W</b>	<u> </u>
	<b>N</b> _	o	NNE _	o	SW	<u> </u>	ESE	<u> </u>
True	e vs Re	lative Bear	ing:					
2.		_	due East, a ma earing was the			_	25° relative to	
3.	boat <b>Wh</b> a	fire directle at " <u>true</u> " b	l captain was pay y to his left. earing was the '' direction wa	e flare fr	om the obser	ver?	0	
Con	version	<u>ıs</u> :						
4.	Con	vert the fol	lowing: (	(° = deg	gree ) ( ' = :	minute )	(" = second	d )
	1° =	=	_ minutes		1° =		seconds	
	1' =	=	seconds		$1/10^{\text{th}} \circ = $		minutes	
<u>Basi</u>	c Navi	gation (Dea	nd Reckoning)	:				
5.	A ve	essel transit	ing at 12 knots	for 3.5 h	nours should tr	avel	NM.	
6.	A ve	essel compl	eting a 32 NM	voyage i	n 4 hours is tr	ansiting	at a speed of _	KTS.
7.		essel transit roximately	ing at a speed o	of 6.5 KT	S should com	plete a v	oyage of 32.5	NM in

### Answers

### **Compass Direction:**

1. Each compass point =  $22.5^{\circ}$ 

<u>067.5</u> °	ENE	<u>315</u> °	NW	<u>157.5</u> °	SSE	<u>090</u> °	E
<u>337.5</u> °	NNW	<u>180</u> °	S	<u>045</u> °	NE	<u>247.5</u> °	WSW
<u>270</u> °	W	<u>292.5</u> °	WNW	<u>202.5</u> °	SSW	<u>135</u> °	SE
<u>112.5</u> °	ESE	<u>225</u> °	SW	022.5°	NNE	<u>000</u> °	N

### **True vs Relative Bearing:**

- 3. A fishing vessel captain was piloting his boat on a course of 190° T when he observed a boat fire directly to his left.

What '<u>true</u>" bearing was the flare from the observer? ( Subtract  $90^{\circ}$  from the vessel's course =  $100^{\circ}$ .)

<u>100</u>° T

What "relative" direction was the flare from the observer?

090° T

# **Conversions:**

4. Convert the following: ( $^{\circ}$  = degree) ( $^{\circ}$  = minute) ( $^{\circ}$  = second)

 $1^{\circ} = \underline{60}$  minutes  $1^{\circ} = \underline{360}$  seconds  $1/10^{\text{th}} = \underline{60}$  minutes

# **Basic Navigation (Dead Reckoning):**

- 5. A vessel transiting at 12 knots for 3.5 hours should travel <u>42 NM</u>
- 6. A vessel completing a 32 NM voyage in 4 hours is transiting at a speed of **8** KTS.
- 7. A vessel transiting at a speed of 6.5 KTS should complete a voyage of 32.5 NM in approximately 5 hours.